ECS Configuration Change Request

1. Originator	2. Log Date	3. CCR #:	4. REV:	5.Tel:	6. Office
Royal White Jr.	3/20/98	98-0834A		x1051	: 2038R

7. Title: For 4P-Landsat, move the STMGT database from the APC Server to the Ingest Server

8. Originator Signature	9. Date:	10. Class II	11. Type: CCR	12. Need Date: 08/28/98
Royal J. White Jr.	8-20-98			

13. Office Manager Signature	14. Date:	15. Date CCB Decision Needed:	16. Category of Change:	17. Priority:
Maurice Morgan	8-20-98	08/21/98	Update Baseline	Urgent

18. Documentation/Drawings Impacted:	19. Schedule Impact:	20. CI(s) Affected:
See Below		

21. Release Affected:	22. Date due to Customer:	23. Impl. Date:	24. Effectivity of Change:	25. Est. Cost
4P-L	9/01/98	08/98	4P-L	Small

26. Source Reference: NCR ☐ Action Item ☐ GSFC CCR ☐ Tech Ref: ☐ Other: ☐
None

27. Description of Change: (use additional Sheets as necessary)
The Storage Management (STMGT) database should not be co-located with the Science Data Server database, (a) for performance reasons (STMGT could be starved during periods of high SDSRV load), and (b) development plans to combine the STMGT database with the DDIST database, in the future.

28. Proposed Solution: (use additional sheets if necessary)
1. Mini-DAAC and VATC must move the stmgtdb1 database from the APC Server to the Ingest Server for testing. See attached instructions.
2. Update the HW-SW Maps (920-TDM and TDV-002) for Mini-DAAC and VATC.

29. Alternate Solution: (use additional sheets if necessary)
Leave STMGT database on APC Server.

30. Consequences if Change(s) are not approved: (use additional sheets if necessary)
Poor performance, and additional development cost since DDIST and STMGT will be unable to share the database.

31. Does Change Affect Any of the following (Please Explain on additional sheet):
Maintenance Training ☐ Performance ☐ Operation Training ☐ Safety ☐ Service ☐ Support ☐ Test ☐

32. Organization(s) Affected: Arch Off ☐ CM ☐ Clearcase Support Group ☐ Contracts ☐ ECS Chief Eng ☐ FOS ☐ M&O ☐ QO ☐ Rel Dev ☒ Procurement ☐ RTSC ☒ SDE ☒ Security ☐ Sys. Eng. ☐ Sys Verf Acpt ☐ Other ☐

33. Site(s) Affected: EDF ☐ Mini-DAAC ☒ VATC ☒ EDC ☐ LaRC ☐ NSIDC ☐ SMC ☐ AK ☐ JPL ☐ EDC ☐ GSFC ☐ Other ☐

34. Board Comments:	35. Work Assigned To:
	RTSC & CM

36. Release Authorized___	37. CM Verified/Date:

38. EDF/REL2 CCB Chair (Sign/Date):	39. Disposition: App ✓ A/C __ W__ Forward ECS __ Forward ESDIS ERB__	40. ESDIS ERB Concurrence:
T W Finke 8/21/98		

41. ECS CCB Chair (Sign/Date):	42. Disposition: App __ A/C __ W___	43. CCR Closed Date:

CM01JL98

ORIGINAL

ADDITIONAL SHEET

CCR #: 98-0834A
Rev: A
Originator: E. White
Telephone:
Office:

Title: For 4P-Landsat, move the STMGT database from the APC Server to the Ingest Server

2. Description of Change: The Storage Management (STMGT) database should not be co-located with the Science Data Server database, (a) for performance reasons (STMGT could be starved during periods of high SDSRV load), and (b) development plans to combine the STMGT database with the DDIST database, in the future.

2. Proposed Solution:
Storage Management Database Move Instructions:

Assumptions:

1. The stmgtdb1, stmgtdb1_TS1, and stmgtdb1_TS2 databases will be deleted from the source Sybase SQL Server and (re)created on the target Sybase SQL Server with the existing Ingest, Ingest_TS1, Ingest_TS2.

2. The target Sybase SQL Server has been configured to accommodate the Baseline Database Sizes, Log Sizes, Index Sizes.

Move Steps:

1. Increase number of user connection on Ingest Server to 150.

2. Make a database backup of each existing database on the target Sybase SQL Server especially the master database using the appropriate DbDump script(s)

3. Run EcDsStDbDump - makes backup copy (as a UNIX operating system file) of an existing STMGT database including data and transaction log on the source Sybase SQL Server. Perform for each unique instance of a STMGT database. Ensure the SYB_BACKUP directory path where the database will be dumped is created.
Note: The SYB_BACKUP directory path should be /usr/ecs/${MODE}/COTS/sybase/sybase.dumps

ORIGINAL

4. Within isql on the target Sybase SQL Server, issue the command "create database " - makes new database space on the target Sybase SQL Server for the stmgt database being moved. Perform for each unique instance of a STMGT database being moved

5. Run EcDsStDbLogin - creates required STMGT server logins on the target Sybase SQL Server and defaults them to the OPS mode database. Note: The OPS mode database space must be created first before the logins can be successfully added

6. Run EcDsStDbLoad - restores dumped database from the source Sybase SQL Server to the new database on the target Sybase SQL Server. Perform for each unique instance of a dumped STMGT database. The SYB_BACKUP directory path should be set to the same as in DbDump.

7. Verify successful load of each new database and stability of existing databases on the target Sybase SQL Server

8. Change configuration file entries for the following application servers on Mini-DAAC to access the new Sybase server. Refer to the Site-Host Map baseline document (910-TDA-005) to locate and update the VATC's and other DAAC's configuration files. The *.CFG files listed below should reside under the standard directory structure:
/usr/ecs/<MODE>/CUSTOM/cfg/
on any machine and in any mode. Related to the mini-DAAC, the following files need to be modified:

On journey - EcDsStPullMonitorServer.CFG
Not used - EcDsSt4MMServer.CFG
On ruby - EcDsSt8MMServer.CFG
On cats, raven, & journey - EcDsStArchiveServer.CFG
On huckfinn - EcDsStIngestFtpServer.CFG
On cats, raven, journey, & huckfinn - EcDsStStagingDiskServer.CFG
On cats, raven, & journey - EcDsStStagingMonitorServer.CFG
On raven - EcDsStFtpDisServer.CFG
Not used - EcDsStFtpCDROMServer.CFG
On ruby - EcDsStPrintServer.CFG
On ruby - EcDsStD3Server.CFG
On ruby - EcDsStStmgtGui.CFG

The *.CFG file parameter value needing modification includes:
DBServer <Sybase SQL Server name> ie: huckfinn_srvr

9. The DSQUERY environment variable used in environment files (such as .cshrc) will need to be modified as well to the Ingest Server from the APC Server. For the Mini-DAAC that would be from journey_srvr to huckfinn_srvr, i.e.

DSQUERY <Sybase SQL Server name> ie: huckfinn_srvr

29. Alternate Solution:

ORIGINAL

30. Consquence(s) If change(s) are not approved:

31. Explain (if necessary):

Maintenance Training:
Performance:
Operation Training:
Safety:
Service:
Support:
Test:

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